

**SAS Superstructure**

Location: 04-SF-80-13.2 / 13.9

Client Name: CalTrans

Run date 22-Nov-14

Time 8:01 AM

**Daily Diary Report by Bid Item**

Contract No.: 04-0120F4

Diary #: 774 Const Calendar Day: 241 Date: 31-Jan-2013 Thursday

Inspector Name: Bruce, Matt Title: Transportation Engineer

Inspection Type: Continuous

Shift Hours: 06:30 am 05:00 pm Break: 00:30 Over Time: 02:00

Federal ID:

Location:

Reviewer: Schmitt, Alex

Approved Date:

Status: Submit

**04-0120F4  
04-SF-80-13.2/13.9  
Self-Anchored  
Suspension Bridge****Weather****Temperature** 7 AM 40 - 50 12 PM 50 - 60 4PM 50 - 60**Precipitation** 0.00"**Condition** Sunny to partly cloudyWorking Day ☐ If no, explain:**Diary:**

Dispute

**Work description.**- Prepared for stressing operations at the W2 cap beam for tendons CBT-1 to 10. ☐

- Used the Caltrans CT-2 Extensometer to measure the STRESSED replacement bolts for the following cable bands:

44S -Acceptance Measurements

34S - Acceptance Measurements

Measurements were taken by myself, John Lyons, and Alex Schmitt. See Doug Wright's diary for more details on the replacement bolt stressing operation at cable bands 44S and 34S today.

**04-0120F4 Bid Item: 034 X-W2C-GTT.034 E-W Line Cross Over W2 Cap Stress & Grout Transverse Tendons**

SCHWAGER DAVIS INC.

**Labor**

| Trade                                  | Class | Name            | RT Hrs | OT Hrs | DT Hrs | Total | Remarks | Dispute                  |
|--|-------|-----------------|--------|--------|--------|-------|---------|--------------------------|
| <b>Contractor:</b> SCHWAGER DAVIS INC. |       |                 |        |        |        |       |         |                          |
| Ironworker                             | JNM   | James Bond      | 4.00   | 0.00   | 0.00   | 4.00  |         | <input type="checkbox"/> |
| Ironworker                             | JNM   | James Carriker  | 8.00   | 0.00   | 0.00   | 8.00  |         | <input type="checkbox"/> |
| Ironworker                             | APP   | Ben Vasquez     | 8.00   | 0.00   | 0.00   | 8.00  |         | <input type="checkbox"/> |
| Ironworker                             | JNM   | Servando Alonzo | 8.00   | 0.00   | 0.00   | 8.00  |         | <input type="checkbox"/> |
| Ironworker                             | FOR   | Erin Jones      | 8.00   | 0.00   | 0.00   | 8.00  |         | <input type="checkbox"/> |

**Diary:**

Dispute

**Work description.** 034 X-W2C-GTT.034 ☐

- Stressed transverse tendons CBT-6 and 2 with the 600 ton ram CH600-8-106 (gauge A) on the North end of the W2 cap beam. The P3500 strain indicator was used to monitor the load of the Contractor's jack, pump, and gauge for CBT-6 and 2. The observed Pjack load for CBT-6 was 1,207 kips (theoretical = 1,183 kips) and for CBT-2 was 1,201 kips. The following elongations were measured after the strands were tensioned to 8500psi:

| Tendon | Elongation (in/mm) | Anchor Set (in/mm) | Theoretical (mm) |
|--------|--------------------|--------------------|------------------|
|--------|--------------------|--------------------|------------------|

-



## Daily Diary Report by Bid Item

Job Name: 04-0120F4

Inspector Name Bruce, Matt

Diary #: 774

Date: 31-Jan-2013

Thursday

|       |                              |                               |              |
|-------|------------------------------|-------------------------------|--------------|
| CBT-6 | $23.5 - 9 = 14.5$ (368)      | $23.5 - 22.875 = 0.625$ (16)  | 337 or 1.09% |
| CBT-2 | $22.375 - 10 = 12.375$ (314) | $22.375 - 21.75 = 0.625$ (16) | 340 or 92%   |

The elongation measurement was taken by an SDI ironworker where the measurement is initialized (9" and 10" in the table above) after 20% of the load is applied to all 27 strands then measured again after 100% of the load (Pjack) is applied.

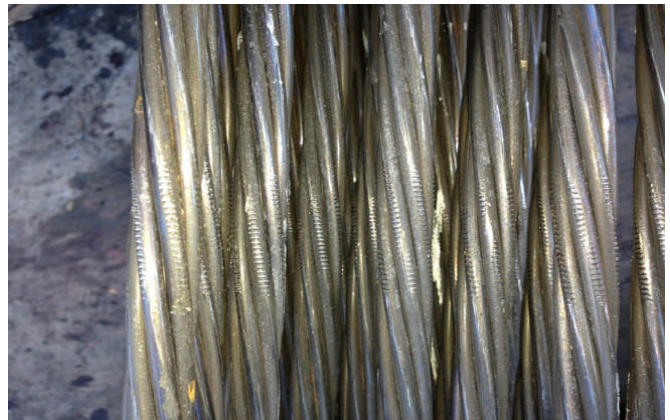
Similarly the monstrand ram 6-8-138 (gauge A) was used in an attempt to stress transverse tendon CBT-7 from the south end of the W2 cap beam. Each of the 27 strands in this tendon were stressed up to 20%, 60%, then to 100% working in a circular pattern starting from the outer strands working towards the center strand. The elongations for the 27 strands varied from 4" to 10" which was unacceptable, see photo below for more details. I informed SDI personnel as well as ABF engineers Levi Gatsos and Mark McDonald that the tendon must be detensioned and restressed with the 600 ton ram since the elongations were out of tolerance (+/- 7%) and unbalanced.

All three tendons stressed today were all done per plan on one single end of the W2 cap beam.

### Attachment



Unequal elongations measured after using the monostrand ram on CBT-7, where the stressing of this tendon is rejected.



Uniform wedge marks seen on the strands of CBT2 after single end stressing with the 600 ton ram from the North end of the W2 cap beam.



SDI ironworker using the monostrand ram to stress CBT-7.